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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,723	07/20/2005	Michael Menth	2003P00697WOUS	8414
28524 7590 12/26/2007 SIEMENS CORPORATION INTELLECTUAL PROPERTY DEPARTMENT 170 WOOD AVENUE SOUTH ISELIN, NJ 08830			EXAMINER CHAN, SAI MING	
			ART UNIT 2616	PAPER NUMBER
			MAIL DATE 12/26/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.		Applicant(s)	
	10/542,723		MENTH ET AL.	
	Examiner		Art Unit	
	Sai-Ming Chan		2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 July 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) 1-10 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 11-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 July 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) ✓ | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) ✓ | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>7/20/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 1-10 canceled.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The information disclosure statements (IDS) submitted on 7/20/2005 has been considered by the Examiner and made of record in the application file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating

obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 11-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Fodor et al. (U.S. Patent #6788646)**, in view of **Hemmady et al. (U.S. Patent #4812157)**.

Consider **claim 11**,

claim 18, and as applied to claim 11 above,

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Fodor et al. clearly disclose and show a method for setting limit values (column 1, lines 19-26 (limit imposed by link capacity)) of an access control (column 5, lines 10-25 (bandwidth control)) for limiting traffic transmission (column 5, lines 10-25 (restrict traffic connections)) in a communication network, wherein the communication network comprises a plurality of pairs of marginal nodes (fig. 1 (20), column 4, lines 61-67; column 5, lines 1-9 (20 IP routers)) between which the transmission occurs, and the limit values (column 1, lines 19-26 (limit imposed by link capacity)) of the access control are limit values regarding the pairs (column 5, lines 10-25 (bandwidth control)), the method comprising the following steps: setting the limit values (column 3, lines 17-34 (admission call control parameters)) such that probabilities for each of the pairs related to not approving the transmission between the marginal nodes of the pair are substantially the same (column 3, lines 17-34 (blocking probabilities are minimized)), and such that an overload situation in the communication network does not occur (column 3, lines 17-34 (max link bandwidth with minimum blocking probabilities)); increasing the limit values to a minimum value at which an overload situation starts to occur (column 11, lines 49-59 (cut-off parameters are set as high as possible for worst-case blocking constraint)), such that the probabilities are substantially the same (column 11, lines 49-59 (since it is at the worse-case blocking constraint, a small change in cut-off parameters will not change the probabilities that much)); and updating the limit value regarding at least one of the pairs of marginal nodes, between which a transmission occurs causing the overload situation, by setting the limit value to the minimum value (column 11, lines 49-59 (link is overloaded)).

However, Fodor et al. do not specifically disclose a plurality of marginal nodes.

In the same field of endeavor, Hemmady et al. clearly show a plurality of marginal nodes (fig. 2, column 6, lines 54-59 (NIMs at the edge of the network)).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate a communication network, as taught by Foder et al., and demonstrate a plurality of edge nodes, as taught by Hemmady et al., so that calls are routed through the network efficiently.

Consider **claim 12**, and **as applied to claim 11 above**, Fodor et al., as modified by Hemmady et al., clearly disclose and show a method in accordance with claim 11, wherein the probabilities related to not approving the transmission between the marginal nodes of the pairs are blocking probabilities related to blocking the transmission between the marginal nodes of the pairs (column 1, lines 58-67; column 2, lines 1-5).

Consider **claim 13**, and **as applied to claim 11 above**, Fodor et al., as modified by Hemmady et al., clearly disclose and show a method, wherein the marginal nodes include nodes of the network representing sources or sinks of traffic of the network (fig. 1 (20), column 4, lines 61-67; column 5, lines 1-9 (20 IP routers)).

Consider **claim 14**, and **as applied to claim 11 above**,

claim 25, and as applied to claim 24 above

Fodor et al., as modified by Hemmady et al., clearly disclose and show a method, wherein the marginal nodes are specified by ingress nodes and egress nodes of the network (fig. 1 (20), column 4, lines 61-67; column 5, lines 1-9 (20 IP routers)).

Consider **claim 15, and as applied to claim 14 above**, Fodor et al., as modified by Hemmady et al., clearly disclose and show the method as described.

However, Fodor et al. do not specifically disclose a plurality of ingress and egress nodes.

In the same field of endeavor, Hemmady et al. clearly show the plurality of the pairs comprises all pairs of the network consisting of an ingress node and an egress node in each case (fig. 2, column 6, lines 54-59 (NIMs at the edge of the network)).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate a communication network, as taught by Foder et al., and demonstrate a plurality of edge nodes, as taught by Hemmady et al., so that calls are routed through the network efficiently.

Consider **claim 16, and as applied to claim 11 above**, Fodor et al., as modified by Hemmady et al., clearly disclose and show a method, wherein the overload situation is produced when in a scenario of high traffic load, in which the limit values for the access controls are still adhered to (fig. 2; column 11, lines 19-59 (maximum cut-off parameters with minimum blocking

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probabilities)), a threshold value is exceeded on a link for the traffic transmitted over the link (column 11, lines 19-45 (throughput-threshold)).

Consider **claim 17**, and **as applied to claim 16 above**,

claim 21, and **as applied to claim 20 above**,

Fodor et al., as modified by Hemmady et al., clearly disclose and show a method, wherein the threshold value for the traffic transmitted over the link is assigned to the link such that in case of failure of the link, the traffic allowed within the framework of the access controls does not represent any overload (fig. 2; column 11, lines 19-59 (iterative procedure will re-tune the parameters)).

Consider **claim 19**, and **as applied to claim 18 above**, Fodor et al., as modified by Hemmady et al., clearly disclose and show a method, comprising repeating the further steps until the limit values for all of the pairs are determined (fig. 2; column 11, lines 19-59 (iterative procedure for maximum cut-off parameters with minimum blocking probabilities)).

Consider **claim 20**, and **as applied to claim 18 above**, Fodor et al., as modified by Hemmady et al., clearly disclose and show a method, wherein the further overload situation is produced when in a further scenario of high traffic load, in which the limit values for the access controls are still adhered to, a further threshold value is exceeded on a further link for the further traffic transmitted over the further link (fig. 2; column 11,

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lines 19-59 (iterative steps to tune the cut-off parameters to its maximum in order to minimize the blocking probabilities)).

Consider **claim 22**, and **as applied to claim 11 above**, Fodor et al., as modified by Hemmady et al., clearly disclose and show a method, further comprising: making access checks for all the traffic of a class of service (column 5, lines 27-47 (provide the contracted QoS)).

Consider **claim 23**, and **as applied to claim 22 above**, Fodor et al., as modified by Hemmady et al., clearly disclose and show a method, wherein the access checks relate to an approval or rejection of individual flows (column 1, lines 58-65 (reject new calls to protect in-progress calls in order to provide QoS)).

Consider **claim 24**, and **as applied to claim 11 above**, Fodor et al., as modified by Hemmady et al., clearly disclose and show a network node with means for executing the method (fig. 2, column 11, lines 19-59).

Conclusion

Any response to this Office Action should be **faxed to (571) 273-8300 or mailed to:**

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Hand-delivered responses should be brought to

Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Sai-Ming Chan whose telephone number is (571) 270-1769. The Examiner can normally be reached on Monday-Thursday from 6:30am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Seema Rao can be reached on (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR

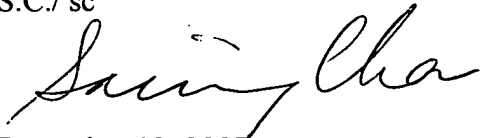
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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 571-272-4100.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Sai-Ming Chan

S.C./ sc



December 12, 2007

Seema S. Rao
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